

ProMinent® Powdered Activated Carbon Preparation System for Direct Dosing

The **ProMinent® ProPac** is engineered to minimise the problems associated with the metering of powdered activated carbon.

Typical System components are:

1. ProFeed Powder Feeder
2. ProWet Intensive Wetting Unit
3. Hopper
4. Bag Loader or Bulk Bag handling & transfer
5. Dust Extraction

With Ancillary equipment available:

- Holding Tank with Stirrer
- Metering Pumps
- Automatic Flushing

All above are easily added to customise a preparation and transfer system to meet your specific requirements.



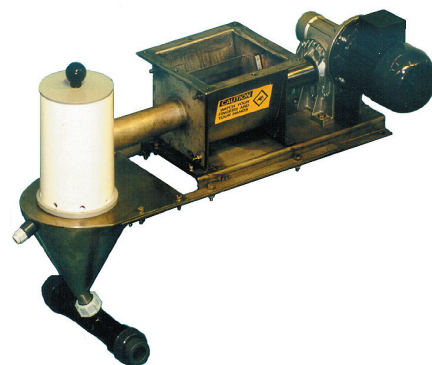
Powdered Activated Carbon Preparation System

ProMinent®

ProFeed's conditioning arm and variable pitch screw ensures the PAC powder is evenly metered into the **ProWet's** wetting chamber to provide constant solution concentration. The **ProWet's** specially designed vacuum assisted wetting unit prevents lumps of dry PAC powder entering the system. The injector is designed to transfer the wetted PAC solution against pressures up to 150 kpa directly to the injection point (preferable) or to an intermediate tank for metering to the injection point. If the pressure is above 150 kpa at the injection point the **ProWet** is fitted to the inlet of a ProMinent Spectra progressive cavity pump.



ProFeed Powder Feeder & ProWet Wetting Unit fitted to Spectra Progressive Cavity Pump Preparation System



Dry Materials Feeder

Flexible Control is possible by using the following options:

- The dosing can be flow paced by varying the feeder motor with a 4-20mA input signal.
- Adjust the PAC solution concentration (ppm) by varying the **ProFeed's** manually variable speed gearbox fitted to the feeder motor.
- Combine both the above options for ultimate control.



ProMinent® Bag Loader

Bag Handling and Dust Removal

- Handling powdered activated carbon without the right equipment can create an unhealthy dust problem. Some systems wet the bag as well, resulting in a wet black bag that is not environmentally friendly to dispose of.
- The ProMinent® **Proload 304SS** bag loader offers a dry bag system with manual bag splitter and is designed for loading 25 kg bags.
- The ProMinent® Bulk Bag Discharge System has been designed for the 500 kg Flexible Bulk Intermediate Containers and utilises an electric hoist to allow for single person operation.
- The ProMinent® **ProDust** vacuum dust collection system automatically removes dust from the loader. The Carbon dust being educted to a low-pressure area eliminating the need for manual collection of dust.



ProMinent® Bulk Bag Discharge System

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